# 

**SECTION G5  
TEAM 7**

**SMART CONTRACT PRODUCT (SCP)**

**CONFIGURATION MANAGEMENT PLAN**

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Description | Author |
| 22-3-2019 | 1.0 | Transferred from Deployment Plan | Ong De Lin |
| 29-3-2019 | 1.1 | Included Architecture Diagram | Kenny Kwek |

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# Configuration Management

## Architecture Diagram

## 

## Code Compilation to Executables

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| createAMI.js script | - | 13 February 2019 |
| deleteAMI.js script | - | 13 February 2019 |
| roles.json script | - | 13 February 2019 |

### 

## File links

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| Github | [Github Url to access official documentations](https://github.com/delinhquentz/G5T7-SCP) | 7 February 2019 |
| Deployment Description | - | 21 February 2019 |
| Hour-by-Hour Plans | - | 17 February 2019 |
| Progress Logs | - | 7 February 2019 |
| Ready-to-Go Checklists | - | 7 February 2019 |
| Risk Descriptions | - | 16 February 2019 |
| Final Sign-Off Documents | - | 15 February 2019 |
| Approval Documents | - | 15 February 2019 |
| Deploying SSL Certificate Documentation | - | 16 February 2019 |
| Automated AMI Backup Documentation | - | 14 February 2019 |
| Deploying Django Application using Gunicorn | - | 17 February 2019 |
| Hardening the Nginx server (Configuration file) Documentation | - | 17 February 2019 |
| Test Log for SCP | - | 17 February 2019 |
| Incident Reports | - | 27 February 2019 |
| Documentation Checklist | - | 28 February 2019 |
| Quality Management Description | - | 1 March 2019 |
| Change Management Description | - | 9 March 2019 |
| Incident Management Description | - | 9 March 2019 |
| Incident Log | - | 9 March 2019 |
| Change Log | - | 9 March 2019 |
| Problem Management Description | - | 17 March 2019 |
| Known Error Record | - | 17 March 2019 |
| Disaster Management Description | - | 20 March 2019 |
| Disaster Log for SCP | - | 20 March 2019 |

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## OS build and configuration

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| Smart Contract Product | **Build:** SCP 1.2.0  **Deployed ports:** 8000(default), 8001 and 8002 (gunicorn) | 10 March 2019 |
| Smart Contract Product backup application (warm standby) | **Build:** SCP 1.2.0  **Deployed address:** <http://3.1.221.255:8000/> | 18 March 2019 |
| Django framework | **Version:** 2.1.5 | 7 February 2019 |
| Amazon Linux (variant from Red Hat/CentOS) | Linux Kernel 4.14. | 7 February 2019 |
| Python | Version 3.6  Pip 9.0.3 | 7 February 2019 |
| Cloudwatch Event Rules for AMI | - | 13 February 2019 |
| Lambda Functions (to create and delete AMI) | - | 13 February 2019 |
| IAM Role | - | 13 February 2019 |

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## Network configuration

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| Cloudtopus | - | - |
| Nginx | **Version:** 1.14.1 | 7 February 2019 |
| puTTy | **Version:** 0.63 | - |
| FileZilla | **Version:** 3.40.0 | - |
| Nginx | **Version:** 1.14.1 | 7 February 2019 |
| AWS Instance | T2.Micro, 1 vCPU, 1 GB RAM, 10 GB Storage | 7 February 2019 |
| Elastic IP Address | 3.1.118.42 | 7 February 2019 |
| htop | **Version:** 1.0.1 | 7 February 2019 |
| AWS Alarms | - | 7 February 2019 |
| AWS CloudWatch | - | 7 February 2019 |
| Domain Name | [www.esmscp.tk](http://www.esmscp.tk) and [esmscp.tk](http://esmscp.tk) | 13 February 2019 |
| Gunicorn | **Version:** 19.9.0 | 17 February 2019 |
| Siege | **Version:** 4.0.2 | 17 February 2019 |
| Nagios | **Version:** 4.4.3 | 3 March 2019 |
| FreshPing | **-** | 14 March 2019 |
| VisualPing (Visual and web comparison) | **-** | 21 March 2019 |

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## Security configuration

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| AWS Security group | HTTP Port 80, SSH Port 22, Custom TCP Rule Port 8000 - 8999 & HTTPS Port 443 | 7 February 2019 |
| Public & Private key | - | 7 February 2019 |
| Certbot | **Version:**0.32.0 | 13 February 2019 |
| SSL Certificate | **Serial Number:** 03a5d271865d20dbfa01f74676c7f57b3d31 **Key:**  RSA 2048 bits(e 65537) **Issuer:**  Let’s Encrypt Authority X3 **Signature Algorithm:** SHA256withRSA  **Valid from:**  Wed, 13 Feb 2019  **Valid till:**  Tue, 14 May 2019  **Protocols:**  TLS1.0, TLS1.1 | 13 February 2019 |

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## Data

|  |  |  |
| --- | --- | --- |
| **Name of Component** | **Remarks** | **Date Deployed** |
| IS214 ESM Ticketing System | - | 21 February 2019 |

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